



U.S. Department
of Transportation
**Research and
Special Programs
Administration**

400 Seventh St., S.W.
Washington, D.C. 20590

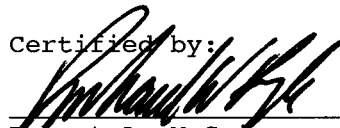
**IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS
CERTIFICATE NUMBER USA/0635/S, REVISION 0**

This certifies that the source described has been demonstrated to meet the regulatory requirements for special form radioactive material as prescribed in the regulations of the International Atomic Energy Agency¹ and the United States of America² for the transport of radioactive materials.

1. Source Identification - AEA Technology QSA, Inc. Model X.1276
2. Source Description - Cylindrical single encapsulation made of stainless steel and tungsten inert gas or laser seal welded. Approximate outer dimensions are 13.5 mm (0.53 in.) in diameter and 40.9 mm (1.61 in.) in length. Minimum wall thickness is 1.27 mm (0.05 in.). Construction shall be in accordance with attached AEA Technology QSA, Inc. Drawing No. RBA62672, Rev. A.
3. Radioactive Contents - No more than 185 GBq (5.0 Ci) Americium-241 oxide mixed with Beryllium powder and pressed into a solid pellet.
4. Quality Assurance - Records of Quality Assurance activities required by Paragraph 310 of the IAEA regulations¹ shall be maintained and made available to the authorized officials for at least three years after the last shipment authorized by this certificate. Consignors and consignees in the United States exporting or importing shipments under this certificate shall satisfy the requirements of Subpart H of 10 CFR 71.
5. Expiration Date - This certificate expires July 31, 2008.

This certificate is issued in accordance with paragraph 804 of the IAEA Regulations and Section 173.476 of Title 49 of the Code of Federal Regulations, in response to the petition and information dated April 15, 2003 submitted by AEA Technology QSA, Inc., Burlington, MA, and in consideration of other information on file in this Office.

Certified by:


Robert A. McGuire
Associate Administrator for
Hazardous Materials Safety

AUG 29 2003

(DATE)

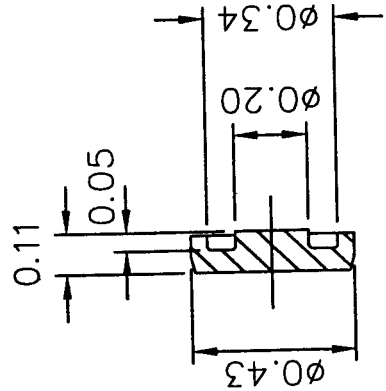
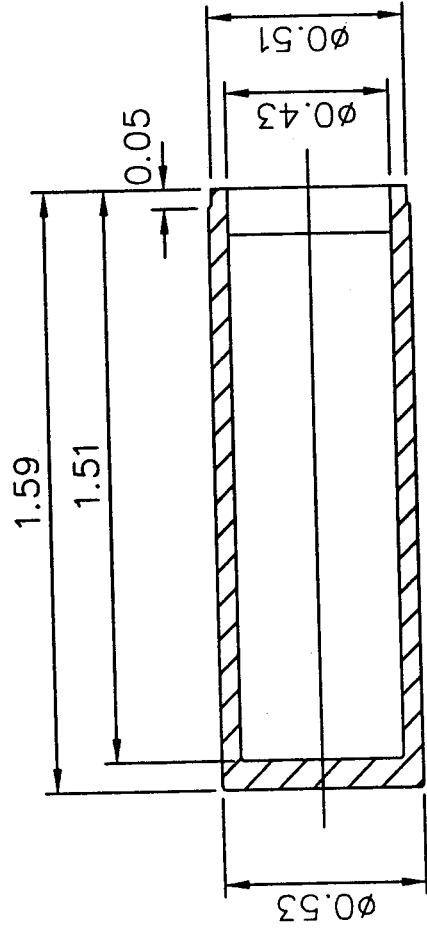
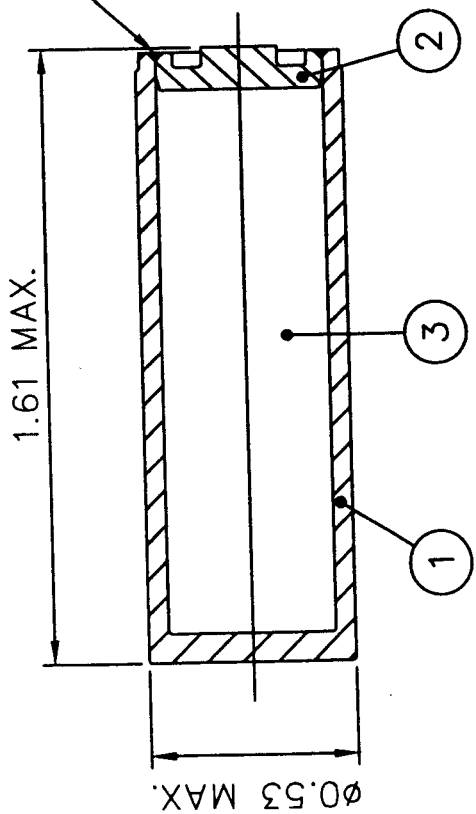
Revision 0 - Original issue.

1 "Regulations for the Safe Transport of Radioactive Material, 1996 Edition (Revised), No. TS-R-1 (ST-1, Revised)," published by the International Atomic Energy Agency (IAEA), Vienna, Austria.

2 Title 49, Code of Federal Regulations, Parts 100 - 199, United States of America.



ITEM No.	DESCRIPTION		QTY.
1	SHEATH BODY	STAIN.STL.	1
2	SHEATH LID	STAIN.STL.	1
3	ACTIVE MATERIAL	AR	

TIG OR LASER
WELD TO SEAL



ITEM 1

ITEM 2

APPROVALS  1/6/82  1/6/82		AEATECHNOLOGY QSA 40 NORTH AVE, BURLINGTON, MA 01803		DESCRIPTIVE DRAWING	
TITLE X1276 CAPSULE ASSEMBLY					
SIZE A		DWG. NO. RBA62672		REV A	
SCALE: NONE		SHEET 1 OF 1			

DIMENSIONS IN INCHES
UNLESS OTHERWISE STATED TOLERANCES:

X	±0.5	INTERNAL	N/A
XX	±0.1	INTERNAL	N/A
XXX	±0.05	EXTERNAL	N/A
ANGULAR ±5°			

ERF # 528